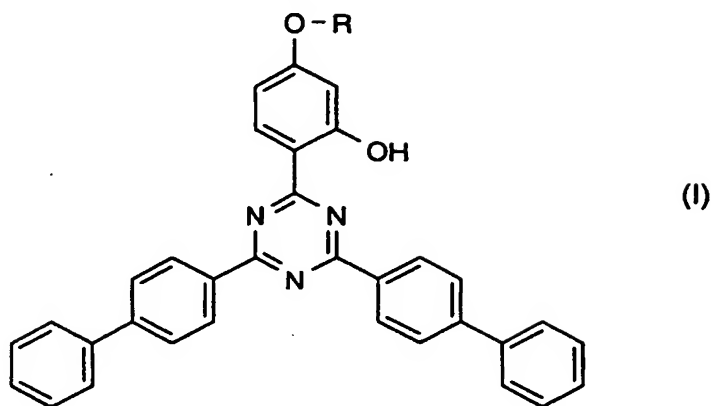


What is Claimed is:

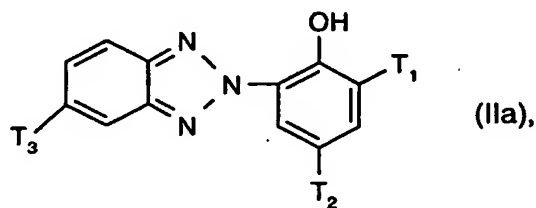
## 1. A composition comprising

## (A) a compound of the formula I



wherein R is  $(\text{CH}_2\text{-CH}_2\text{-O})_n\text{-R}_2$ ;  $\text{-CH}_2\text{-CH(OH)-CH}_2\text{-O-R}_2$ ; or  $\text{-CH(R}_3\text{)-CO-O-R}_4$ ; n is 0 or 1;  $\text{R}_2$  is  $\text{C}_1\text{-C}_{13}$ alkyl or  $\text{C}_2\text{-C}_{20}$ alkenyl or  $\text{C}_6\text{-C}_{12}$ aryl or  $\text{CO-C}_1\text{-C}_{18}$ alkyl;  $\text{R}_3$  is H or  $\text{C}_1\text{-C}_8$ alkyl;  $\text{R}_4$  is  $\text{C}_1\text{-C}_{12}$ alkyl or  $\text{C}_2\text{-C}_{12}$ alkenyl or  $\text{C}_5\text{-C}_6$ cycloalkyl; and

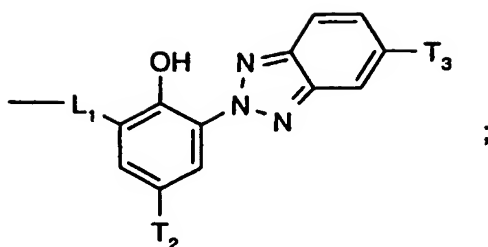
(B) a compound selected from benzotriazoles of the formula (IIa), 2-hydroxybenzophenones of the formula (IIb), oxalanilides of the formula (IIc), 2-hydroxyphenyltriazines of formula (IId), cinnamates of formula (IIe), and benzoates of formula (IIf)



wherein  $\text{T}_1$  is hydrogen,  $\text{C}_1\text{-C}_{18}$ alkyl, or  $\text{C}_1\text{-C}_{18}$ alkyl which is substituted by phenyl,

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or  $T_1$  is a group of the formula



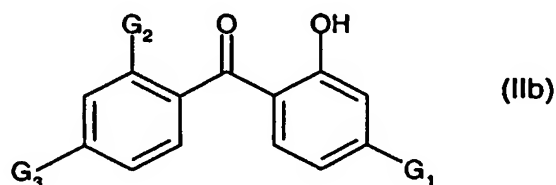
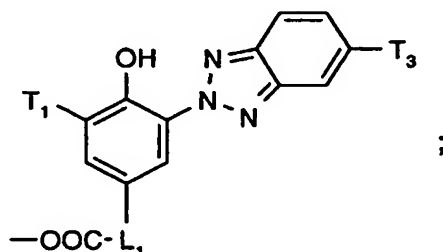
$L_1$  is a divalent group, for example  $-(CH_2)_n-$ , where  $n$  is from the range 1-8;

$T_2$  is hydrogen,  $C_1$ - $C_{18}$ alkyl, or is  $C_1$ - $C_{18}$ alkyl which is substituted by  $COOT_5$ ,  $C_1$ - $C_{18}$ alkoxy, hydroxyl, phenyl or  $C_2$ - $C_{18}$ acyloxy;

$T_3$  is hydrogen, halogen,  $C_1$ - $C_{18}$ alkyl,  $C_1$ - $C_{18}$ alkoxy,  $C_2$ - $C_{18}$ acyloxy, phenyl, or is perfluoroalkyl of 1 to 12 carbon atoms;

$T_5$  is  $C_1$ - $C_{18}$ alkyl or  $C_4$ - $C_{50}$ alkyl interrupted by one or more O and/or substituted by OH or by a

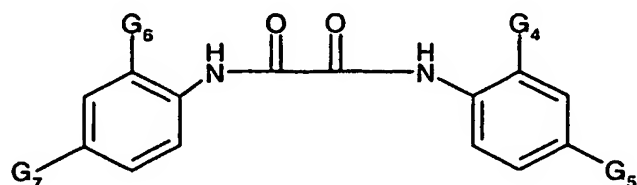
group



(IIb)

wherein

$G_1$ ,  $G_2$  and  $G_3$  independently are hydrogen, hydroxy or  $C_1$ - $C_{18}$ alkoxy;

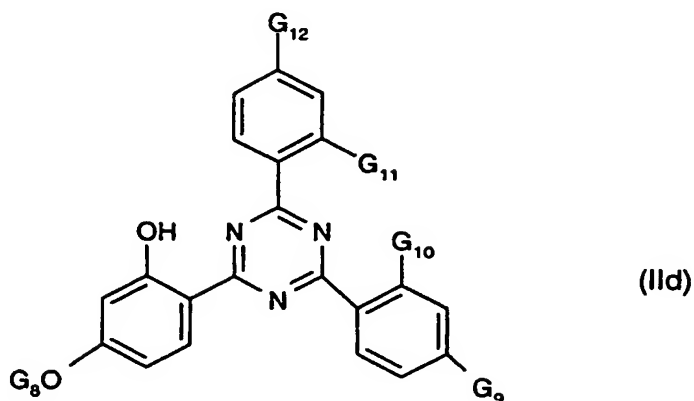


(IIc)

wherein

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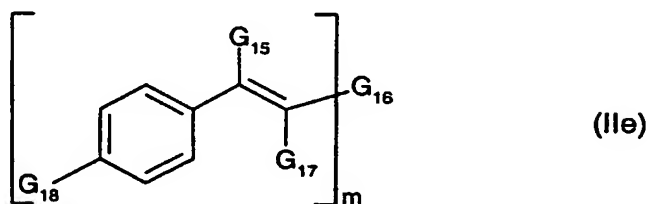
G<sub>4</sub>, G<sub>5</sub>, G<sub>6</sub> and G<sub>7</sub> independently are hydrogen, C<sub>1</sub>-C<sub>12</sub>alkyl or C<sub>1</sub>-C<sub>12</sub>alkoxy;



wherein

G<sub>8</sub> is C<sub>1</sub>-C<sub>18</sub>alkyl, or is C<sub>4</sub>-C<sub>18</sub>alkyl which is interrupted by COO or OCO or O, or is interrupted by O and substituted by OH;

G<sub>9</sub>, G<sub>10</sub>, G<sub>11</sub> and G<sub>12</sub> independently are hydrogen, methyl, hydroxy or OG<sub>8</sub>;



wherein

m is an integer from 1 to 4;

G<sub>15</sub> is hydrogen or phenyl;

if n is 1, G<sub>16</sub> is COO-G<sub>19</sub>;

if n is 2, G<sub>16</sub> is C<sub>2</sub>-C<sub>12</sub>alkane-dioxycarbonyl;

if n is 3, G<sub>16</sub> is C<sub>3</sub>-C<sub>12</sub>alkane-trioxycarbonyl;

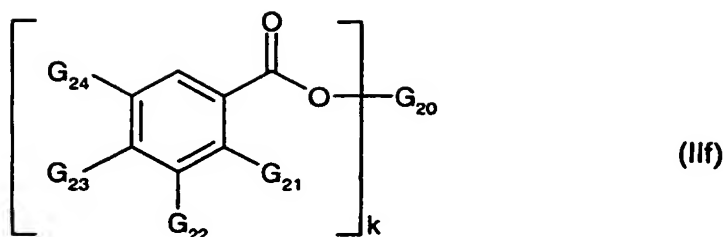
if n is 4, G<sub>16</sub> is C<sub>4</sub>-C<sub>12</sub>alkane-tetraoxycarbonyl;

G<sub>17</sub> is hydrogen, CN, or is COO-G<sub>19</sub>;

G<sub>18</sub> is hydrogen or methoxy;

G<sub>19</sub> is C<sub>1</sub>-C<sub>18</sub>alkyl;

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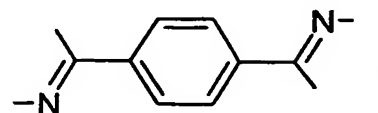


wherein

k is 1 or 2;

when k is 1, G<sub>20</sub> is C<sub>1</sub>-C<sub>18</sub>alkyl, phenyl or phenyl substituted by C<sub>1</sub>-C<sub>12</sub>alkyl, and G<sub>21</sub> is hydrogen;

when k is 2, G<sub>20</sub> and G<sub>21</sub> together are the tetravalent group



G<sub>22</sub> and G<sub>24</sub> independently are hydrogen or C<sub>1</sub>-C<sub>8</sub>alkyl;

G<sub>23</sub> is hydrogen or hydroxy,

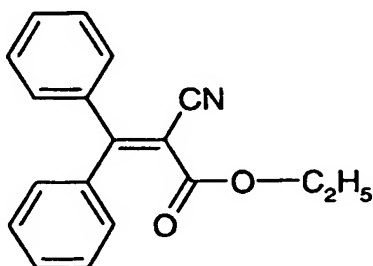
provided that R in formula (I) is (CH<sub>2</sub>-CH<sub>2</sub>-O)<sub>n</sub>-R<sub>2</sub> if component (B) contains a 2-hydroxyphenyltriazine of formula (IIId) wherein G<sub>9</sub>, G<sub>10</sub>, G<sub>11</sub> or G<sub>12</sub> are methyl.

2. A composition according to claim 1 wherein component (B) is selected from the compounds (i) to (xiv):

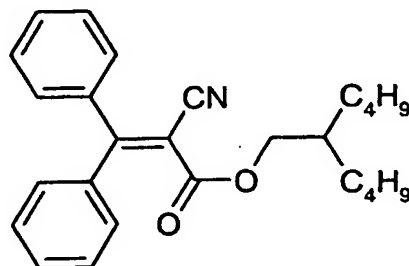
- i. 2-(3',5'-di-tert-butyl-2'-hydroxyphenyl)-5-chlorobenzotriazole,
- ii. 2-(3',5'-di-tert-amyl-2'-hydroxyphenyl)benzotriazole,
- iii. 2-(3',5'-bis(α,α-dimethylbenzyl)-2'-hydroxyphenyl)benzotriazole,
- iv. 2-(3'-tert-butyl-2'-hydroxy-5'-(2-octyloxycarbonyl)ethyl)phenyl)benzotriazole,
- v. 2,2'-methylene-bis[4-(1,1,3,3-tetramethylbutyl)-6-benzotriazole-2-yl]phenol],
- vi. the transesterification product of 2-[3'-tert-butyl-5'-(2-methoxycarbonyl)ethyl]-2'-hydroxyphenyl]-2H-benzotriazole with polyethylene glycol 300,
- vii. 2-[2'-hydroxy-3'-(α,α-dimethylbenzyl)-5'-(1,1,3,3-tetramethylbutyl)phenyl]benzotriazole,
- viii. 5-trifluoromethyl-2-(2-hydroxy-3-α-cumyl-5-tert-octylphenyl)-2H-benzotriazole,
- ix. 2-(2'-hydroxy-5'-(2-hydroxyethyl)phenyl)benzotriazole,
- x. 2-(2'-hydroxy-5'-(2-methacryloyloxyethyl)phenyl)benzotriazole,
- xi. 2,4-bis(2,4-dimethylphenyl)-6-(2-hydroxy-4-alkyloxyphenyl)-1,3,5-triazine, where alkyl is a mixture of C<sub>8</sub>-alkyl groups,
- xii. 2,4-bis(2,4-dimethylphenyl)-6-(2-hydroxy-4-octyloxyphenyl)-1,3,5-triazine,

- xiii. 2,4-diphenyl-6-(2-hydroxy-4-[ $\alpha$ -ethylhexanoyloxyethyl]phenyl)-1,3,5-triazine,
- xiv. 2,4-bis(2-hydroxy-4-butyloxyphenyl)-6-(2,4-bis-butyloxyphenyl)-1,3,5-triazine,
- xv. 2,4,6-tris(2-hydroxy-4-[1-ethoxycarbonylethoxy]phenyl)-1,3,5-triazine,
- xvi. the reaction product of tris(2,4-dihydroxyphenyl)-1,3,5-triazine with the mixture of  $\alpha$ -chloropropionic esters (made from isomer mixture of  $C_7$ - $C_9$  alcohols),
- xvii. 2-[4-(dodecyloxy/tridecyloxy-2-hydroxypropoxy)-2-hydroxyphenyl]-4,6-bis(2,4-dimethylphenyl)-1,3,5-triazine,
- xviii. 2-[2-hydroxy-4-[3-(2-ethylhexyl-1-oxy)-2-hydroxypropyloxy]phenyl]-4,6-bis(2,4-dimethylphenyl)-1,3,5-triazine,
- xix. 2-(2-hydroxy-4-hexyloxyphenyl)-4,6-diphenyl-1,3,5-triazine,
- xx. 2-(3'-tert.butyl-5'-methyl-2'-hydroxyphenyl)-5-chloro-benzotriazole,
- xxi. 2-(3'-sec. butyl-5'-tert.butyl-2'-hydroxyphenyl)-benzotriazole,
- xxii. 2-(3',5'-di-tert-butyl-2'-hydroxyphenyl)-benzotriazole,
- xxiii. 2-(5'-tert.octyl-2'-hydroxyphenyl)-benzotriazole,
- xxiv. 2-(3'-dodecyl-5'-methyl-2'-hydroxyphenyl)-benzotriazole,
- xxv. 2-(3'-tert.butyl-5'-(2-octyloxycarbonylethyl)-2'-hydroxyphenyl)-5-chloro-benzotriazole,
- xxvi. 2-(5'-methyl-2'-hydroxyphenyl)-benzotriazole,
- xxvii. 2-(5'-tert.butyl-2'-hydroxyphenyl)-benzotriazole,

xxx. the compound of formula



xxxi. the compound of formula



- xxxii. 2-ethylhexyl-p-methoxycinnamate,
- xxxiii. 2,4-dihydroxybenzophenone,
- xxxiv. 2-hydroxy-4-methoxybenzophenone,

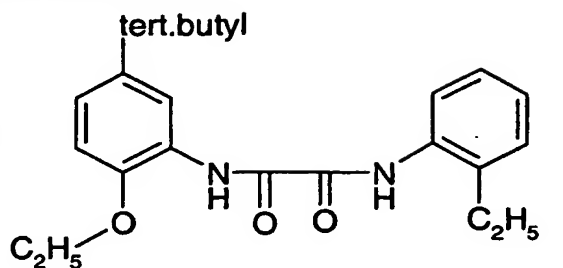
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xxxv. 2-hydroxy-4-dodecyloxybenzophenone,

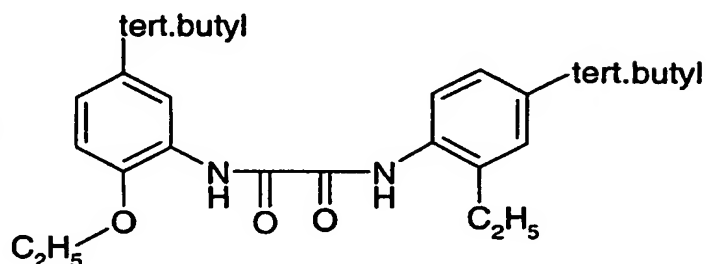
xxxvi. 2-hydroxy-4-octyloxybenzophenone,

xxxvii. 2,2'-dihydroxy-4-methoxybenzophenone,

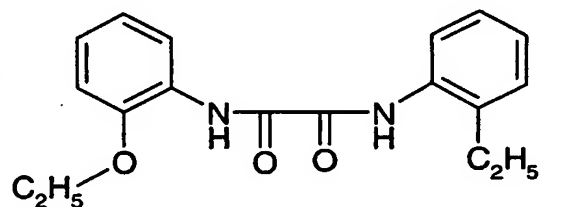
xxxviii. the compound of formula



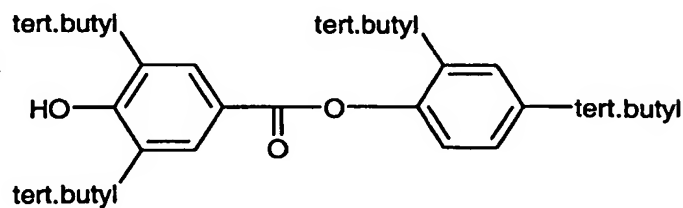
xxxix. the compound of formula



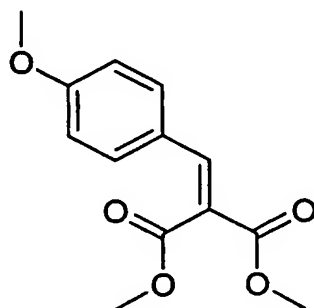
xl. the compound of formula



xli. the compound of formula

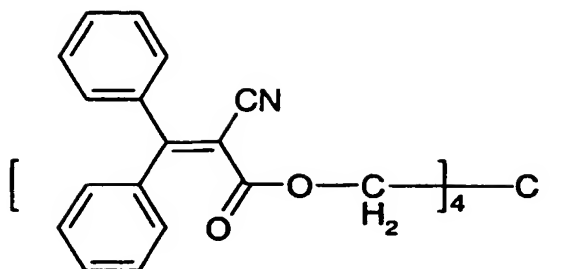


xlii. the compound of formula

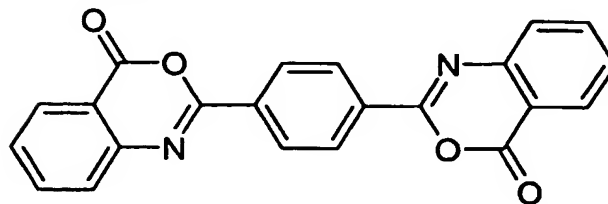


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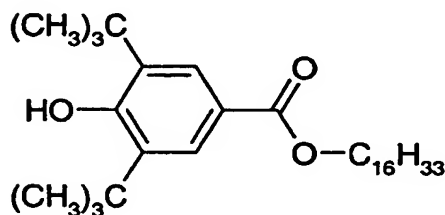
xliii. the compound of formula



xliv. the compound of formula



xlv. the compound of formula



provided that R in formula (I) is  $(\text{CH}_2\text{-CH}_2\text{-O})_n\text{-R}_2$  if component (B) contains compound xi, xii, xvii or xviii.

3. A composition according to claim 1 wherein component (A) is selected from compounds of the formula (I) wherein R contains an uninterrupted, branched or unbranched  $\text{C}_7\text{-C}_{13}$  alkyl chain, and wherein component (B) is selected from benzotriazoles the formula (IIa) and 2-hydroxybenzophenones of the formula (IIb).

4. A composition according to claim 2 wherein component (A) is selected from the compounds

(A1) 2-{2-hydroxy-4-[1-octyloxycarbonyloxy]phenyl}-4,6-bis(4-phenylphenyl)-1,3,5-triazine and/or

(A2) 2-(2-hydroxy-4-(2-ethylhexyloxy)phenyl)-4,6-bis(4-phenylphenyl)-1,3,5-triazine.

5. A composition according to claim 4 wherein component (A) is the compound (A1) and component (B) is selected from the compounds i - iv, vi - xi, xiii - xviii, xx, xxiii - xxxix.

6. A composition according to claim 4 wherein component (A) is the compound (A2) and component (B) is selected from the compounds i-viii, xii, xiii, xix-xxiii, xxv-xxvii, xxx-xxxvi, xl-xlv.
7. A composition according to claim 1 comprising a further additive selected from plasticizers, lubricants, emulsifiers, pigments, rheology additives, catalysts, flow-control agents, optical brighteners, further light stabilizers, antioxidants, clarifiers, flameproofing agents, anti-static agents, benzoxazinone UV absorbers, blowing agents and thiosynergists.
8. A composition according to claim 7 comprising a further additive selected from sterically hindered amine stabilizers.
9. A composition according to claim 1 comprising the components (A) and (B) in a weight ratio ranging from 1 part (A) : 20 parts (B) to 10 parts (A) : 1 part (B).
10. A composition comprising  
(a) an organic material and  
(b) as stabilizer or protecting agent against the effects of light, oxygen and/or heat or ultraviolet filtering agent, a composition comprising a compound (A) and a compound (B) according to claim 1.
11. Composition according to claim 10 wherein the organic material is a thermoplastic polymer, a crosslinkable binder of a coating composition, the crosslinked coating, a dye or printing ink or a color photographic material.
12. Composition according to claim 10 wherein the organic material of component (a) is selected from thermoplastic polymers, and component (b) is a combination of compound (A2) with a compound (B) selected from the compounds i-x, xii, xiii, xix-xxiii, xxv-xxvii, xxx-xxxvi, and xl-xlv.
13. Composition according to claim 10 wherein the organic material of component (a) is selected from a crosslinkable binder of a coating composition, a crosslinked coating, a dye or printing ink or a color photographic material, and component (b) is a combination of



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compound (A1) with a compound (B) selected from the compounds i – iv, vi - xi, xiii – xviii, xx, xxiii – xxvii, xxx - xxxix.

14. Composition according to claim 10 wherein component (b) and optional further stabilizers are present in an amount of 0.01 to 10% by weight, relative to component (a).

15. Composition according to claim 10 which is a molding, rotomolded article, injection molded article, blow molded article, film, tape, mono-filament, fiber, nonwoven, profile, adhesive or putty, surface coating.

16. A process for stabilizing an organic material against damage by light, oxygen and/or heat, which comprises adding to or applying to said material a composition according to claim 1.

17. The use of a composition according to claim 1 for stabilizing an organic material against damage by light, oxygen and/or heat.